

GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS) KUMBAKONAM

(Curriculum – M.Sc., PHYSICS – 2021 - 2022)

Department : PHYSICS

Programme Code : PSPH

Course Type	Course Code	Title of the Course	Hrs/ Week	Credits	Exam Hrs	Marks		
						CIA	ESE	Total
SEMESTER - I								
CC I	P21PHC101	Classical Dynamics & Relativity	6	5	3	25	75	100
CC II	P21PHC102	Mathematical Physics	6	5	3	25	75	100
CC III	P21PHC103	Numerical Methods	5	5	3	25	75	100
CC IV	P21PHC104P	General Experiments	6	3	4	40	60	100
MBEC - I	P21PH1MBE1:1	Analog Electronics, Microprocessor and Microcontroller	5	4	3	25	75	100
	P21PH1MBE1:2	Advanced Microprocessor and its Applications						
	P21PH1MBE1:3	Digital Electronics and Basic of microprocessors						
SEC - I	P21PH1SE1	Document Preparation System - Latex	2	2	2	25	75	100
Total			30	24				600
SEMESTER - II								
CC V	P21PHC205	Statistical Mechanics	5	5	3	25	75	100
CC VI	P21PHC206	Quantum Mechanics	5	5	3	25	75	100
CC VII	P21PHC207	Programming in C++	5	5	3	25	75	100
CC VIII	P21PHC208P	Electronic Experiments	6	3	4	40	60	100
MBEC - II	P21PH2MBE2:1	Experimental Techniques and Instrumentation	5	4	3	25	75	100
	P21PH2MBE2:2	Data Acquisition and control Systems						
	P21PH2MBE2:3	Advanced Measurement and Instrumentation						
EDC	P21PH2ED	Reactor Physics	2	2	3	25	75	100
SEC – II	P21PH2SE2P	Document Preparation System - Latex(Practical)	2	1	2	40	60	100
Total			30	25				800
SSC – I	P212SS1	General Studies for Research Fellowships and Lectureship	-	2	2	-	100	100
NCGPA (Internship)	INT	-		2		-	-	-
SEMESTER – III								
CC – IX	P21PHC309	Atomic and Molecular Spectroscopy	6	5	3	25	75	100
CC – X	P21PHC310	Electromagnetic Theory	6	5	3	25	75	100
CC – XI	P21PHC311	Nuclear and Particle Physics	6	5	3	25	75	100
CC – XII	P21PHC312P	Digital Electronics - I	6	3	4	40	60	100
MBEC– III	P21PH3MBE3:1	Communication Electronics	6	4	3	25	75	100
	P21PH3MBE3:2	Integrated Electronics						
	P21PH3MBE3:3	Antenna theory and Radio wave propagation						
Total			30	22				500
SSC- II	P21PH3SS2	Any Course on MOOC / NPTEL	-	2	2	-	100	100
SEMESTER – IV								
CC – XIII	P21PHC413	Condensed Matter Physics	6	6	3	25	75	100
CC – XIV	P21PHC414P	Program with Microprocessor, Microcontroller and C++ Program	6	3	4	40	60	100
CC – XV (Project)	P21PHPW415	-	12	6	-	25	75	100
MBEC-IV	P21PH4MBE4:1	Crystal Growth, Thin film and Nanoscience	6	4	3	25	75	100
	P21PH4MBE4:2	Thin film science and Technology						
	P21PH4MBE4:3	Nano photonics						
Total			30	19				400

Course Structure Abstract for
M.Sc., Programme 2021-2022 onwards

Part	Course	Total No Papers	Hours	Credit	Mark
III	Core Course (CC)	14	80	63	1400
III	Core Project	1	12	6	100
III	Major Based Elective Course – IV (MBEC)	4	22	16	400
III	Extra Disciplinary Course (EDC)	1	2	2	100
III	Skill Enhancement(SEC)	2	4	3	200
Total		22	120	90	2200
Extra Credit Courses					
	Self Study Course (SSC)	2	---	4	---
	NCGPA Course (Internship)	--	--	2	200
	Value Added Course	1	--	2	100
Total		3	120	98	2400